

### **WHAT IS CLAIMED IS:**

1. A device for selecting a channel of radio and television sets comprising  
a central processing unit;  
a signal receiving block linked to and controlled by the central processing unit  
and used to receive a signal and if necessary converting the signal to a digital format;  
an A/V block linked to and controlled by the central processing unit and  
generating the signal to be displayed on a screen in a required format;  
a memory block linked to and controlled by the central processing unit and  
containing various types of memory;  
a viewing ratings analyzer controlled by the central processing unit and analyzing  
a viewing rating table and/or a viewing rating list stored in databases of a ratings  
storage block; and  
a power-on block linked to and controlled by the viewing ratings analyzer for  
switching-on a set and setting a channel.
2. A method for selecting a channel of radio and television sets comprising  
switching a set on;  
monitoring channels viewed by a user;  
storing data about channel viewing ratings in databases; and  
searching the databases for information about channels viewed last or most often  
on a day of the week and at a time of switching the set on;  
selecting a channel viewed last or most often on the day of the week and at the  
time of switching the set on; and  
setting the channel viewed last or viewed most often on the day of the week and  
at the time of switching the set on.
3. The method for selecting the channel according to claim 2 wherein  
one of the databases is a list having records comprising a number of a viewed  
channel, a viewing start time and a viewing stop time of the viewed channel.

4. The method for selecting the channel according to claim 3 wherein the viewing ratings statistics is created for each day of the week separately or separately for workdays and separately for weekends or separately for workdays and individually for Saturdays and for Sundays.
5. The method for selecting the channel according to claim 3 wherein the list is formed as a circular buffer, where time is stated as a date and an hour.
6. The method for selecting the channel according to claim 3 wherein the list is formed as separate lists for each day, containing an unlimited number of records, where time is stated as an hour alone.
7. The method for selecting the channel according to claim 2 wherein one of the databases is a table having columns defining time intervals, rows defining days and fields with a number of a viewed channel.
8. The method for selecting the channel according to claim 7 further comprising  
copying the oldest data to free space of a row of the table before a last row of the table and deleting the last row of the table when there is insufficient space for new data.
9. The method for selecting the channel according to claim 2 further comprising  
searching the databases for information about channels last viewed at a later time as compared to the time of switching the set on when the databases contain no data on channel viewing ratings on the day of the week and at the time of switching the set on;  
selecting a channel last viewed at the later time as compared to the time of switching the set on when the databases contain no data on channel viewing ratings on the day of the week and at the time of switching the set on;  
setting the channel last viewed at the later time.

10. The method for selecting the channel according to claim 2 further comprising
- searching the databases for information about channels viewed at the time of switching the set on and at a later time;
  - comparing the viewing ratings of the channel viewed at the time of switching the set on and at the later time and selecting the channel with higher viewing ratings;
  - setting the channel with higher viewing ratings.
11. The method for selecting the channel according to claim 2 further comprising
- setting a channel last viewed when no database was found.
12. The method for selecting the channel according to claim 2 wherein the searching is activated by a user by switching the set on by means of a "Power-on" button.